

AMENDMENT UNDER 37 CFR § 1.111
Application No. 09/902,957

AMENDED CLAIMS:

1. (Currently Amended) A process for the liquid phase production of cumene which comprises the step of contacting benzene and propylene under liquid phase alkylating conditions with a particulate molecular sieve alkylation catalyst to produce cumene, wherein the molecular sieve of the alkylation catalyst is selected from the group consisting of MCM-22, PSH-3, ~~SSZ-25~~, MCM-36, MCM-49, and MCM-56 and the particles of said alkylation catalyst have a surface to volume ratio of about 80 to less than 200 inch⁻¹.
2. (Original) The process of claim 1 wherein the particles of said alkylation catalyst have a surface to volume ratio of about 100 to about 150 inch⁻¹.
3. (Cancelled)
4. (Original) The process of claim 1 wherein said alkylation conditions include a temperature of about 10°C to about 125°C, a pressure of about 1 to about 30 atmospheres, and a benzene weight hourly space velocity (WHSV) of about 5 hr⁻¹ to about 50 hr⁻¹.

5-11 (Cancelled)

12. (Currently Amended) A process for producing cumene which comprises the step of contacting benzene and propylene under at least partial liquid phase alkylating conditions with a particulate molecular sieve alkylation catalyst selected from the group consisting of MCM-22, PSH-3, ~~SSZ-25~~, MCM-36, MCM-49, and MCM-56, wherein the particles of said alkylation catalyst have a surface to volume ratio of about 80 to less than 200 inch⁻¹ and wherein the product of said contacting step comprises cumene.